## Ideation Phase Literature survey

Date	9 October 2022
Team ID	PNT2022TMID09307
Project Name	University Admit Eligibility Predictor

Prediction of the admission the admission lines of college entrance examination based on machine learning   Province   Province

Link: https://ieeexplore.ieee.org/document/7924718

S.NO	RESEARCH PAPER	AUTHOR	ALGORITHM USED	DATASET	INFERENCE
2	A University Admission Prediction System using Stacked Ensemble Learning	Sashank Sridhar, Siddartha Mootha, Santosh Kolagati	MULTI LAYER PERCEPTRON AND THE STACKED ENSEMBLE MODEL. The proposed model takes into consideration various factors related to the student including their research experience, industry experience etc. The system proposed has been evaluated against various other machine learning algorithms including other deep learning methods. It is observed that the proposed model easily outperforms all other models and provides a very high accuracy.	The dataset consists of the applicant scores such as TOEFL, IELTS, GRE, GMAT, CGPA. web crawler has been ued to extract student details from Edulix for 45 universities shortlisted. The scraped data had a total of 22 features and 50, 000 samples.	The proposed ensemble neural network is evaluated by comparing it to other supervised algorithms such as Decision Trees, Random Forest, K-Nearest Neighbor, Naive Bayes Classifier, Logistic Regression, Support Vector Machine, (SVM), Linear Discriminant Analysis and Quadratic Discriminant Analysis. Ensemble NN has the highest accuracy.

Link: https://ieeexplore.ieee.org/document/9213205

S.NO	RESEARCH PAPER	AUTHOR	ALGORITHM USED	DATASET	INFERENCE
3	Engineering & Technology Admission Analysis and Prediction	Sachin Bhimrao Bhoite, Ajit More	Logistic Regression, K Nearest Neighbours', Decision Tree Classifier, Random Forest Classifier, Naive Bayes & Support Vector Machine Supervised Machine Learning Algorithms. Out all six models Decision Tree classifier & Random Forest always give great accuracy.	Various non-aided but affiliated to Savitribai Phule Pune University's engineering colleges admission record of academic year 2015-16 are considered. This Dataset has various attributes, which are: 'Main Serial No.', 'Sr. No.', 'College Name', 'College Code', 'Merit No', 'Merit Marks', 'Candidate Name', 'Gender', 'Candidate Type', 'Category', 'Home University', 'PH Type', 'Defence Type', 'HSC Eligibility', 'Seat Type', 'Fees Paid', 'CAP Round', 'Admitted/Upload ed Late', 'BRANCH' and 'NATIONALITY'.	Feature engineering is very essential part while implementing & building predictive models using machine learning techniques. The results have been more improved after feature engineering.

Link:

https://www.researchgate.net/publication/341740217 ENGINEERING TECHNOLOGY AD MISSION ANALYSIS AND PREDICTION

S.NO	RESEARCH PAPER	AUTHOR	ALGORITHM USED	DATASET	INFERENCE
4	Research on Prediction of College Students' Performance Based on Support Vector Machine	Peng Wang , Yinshan Jia	Support vector machine was used to establish a college course performance prediction model, and cross- validation methods were used to obtain the best parameters and a reliable and stable model	The 2016 college computer science and technology and communication engineering students of a university were selected as the experimental data.	The prediction accuracy rate reached 73.6%. The prediction results show that the support vector machine can accurately predict college course performance based on the college entrance examination results.
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Link: https://www.jncet.org/Manuscripts/Volume-8/Issue-4/Vol-8-issue-4-M-32.pdf